

What is claimed is:

1. A method for processing a substantially heterogeneous composition to a substantially homogenous solution comprising:

providing a heterogeneous medium having an interface surface region; and

applying energy to the interface region of the heterogeneous medium.

2. The method of claim 1, wherein the energy is applied to the interface of the heterogeneous surface in the form of a short pulse.

3. The method of claim 1, further comprising introducing energy directly to the interface region.

4. The method of claim 1, wherein the energy is supplied to each interface point in the solution.

5. The method of claim 1, wherein the energy is formed through pressure drop.

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6. The method of claim 1, wherein the energy is in the form of shearing stress supplied to the interface region.
7. The method of claim 1, wherein the energy is supplied by bringing the inter-phase region to an adiabatic boil.
8. The method of claim 1, wherein the energy is supplied to the interface region is in the form of hydraulic energy.
9. The method of claim 8, wherein the hydraulic energy is supplied by a hydraulic hammer.
10. The method of claim 1, wherein the energy is supplied to the inter-phase region in the form of an electromagnetic wave.
11. The method of claim 1, wherein the electromagnetic wave is a blast wave.

12. A process for providing a substantially homogenized composition from a substantially heterogeneous composition comprising:

providing a heterogeneous composition having an interface surface;

supplying energy in the form of short pulses to the interface surface.